NOMENCLATURE OF THE OCHROSINÆ (APOCYNACEÆ): 2. SYNONYMY OF OCHROSIA JUSS. AND NEISOSPERMA RAF.

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ABSTRACT: Alphabetical list of the 21 Ochrosia and 18 Neisosperma here recognized, with citation of synonyms and geographic distribution, and a general index of names.

RÉSUMÉ: Énumération alphabétique des 21 Ochrosia et 18 Nelsosperma reconnus, avec synonymies complètes et répartitions géographiques, et un index des binômes publiés dans ces deux genres.

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The three of us are now in agreement on the subdivision of Ochrosia Jussieu into two genera, and on the correct name, Neisoperma Rafinesque, for the genus with loosely fibrous or spinose endocarps. As the limits and identities of most of the described species of these two genera are now reasonably clear, it seems appropriate to list them, making the necessary new combinations, in order that the names can be used. The accepted names, with synonymy and cross references for the synonyms are listed below. Descriptions, keys and more complete synonym must wait until our more comprehensive revision of the two genera and their close relatives is completed.

OCHROSIA Jussieu

- Gen. Pl.; 144 (1789); A. DC., Prodr. 8; 356 (1844).
- Bleekerig Hasskart, Retzia 1: 38 (1855); Koidzumi, Bot. Magaz. Tokyo 37; 51-52 (1923).
- Ochrosia subgen. Lactaria F. MUELL., Fragm. Phytogr. Austral. 7: 130 (1869).
 Ochrosion St., LAGER, Ann. Soc. Bot. Lyon 7: 131 (1880).
- Excavatia Markgraf, Bot. Jahrb. 61: 194 (1927).

1. Ochrosia ackeringæ (Teysmann & Binnendijk) Miquel

Ann. Mus. Lugduno-Bat. 4: 138 (1869).

 Lactaria ackeringæ Teysm. & Binn., Flora 49: 486 (1866); Nat. Tidjschr. Nederl. Ind. 29: 249 (1867).

- Bleekeria ackeringe (Teysm. & BINN.) Komzumi. Bot. Magaz. Tokyo 37: 52 (1923)
- Ochrosia litteralis MERRILL, Philipp. Journ. Sci. 4: 315 (1909).
- Bleekeria littoralis (MERR.) KOIDZ., Bot. Magaz. Tokyo 37 : 52 (1923).
- Excavatia littoralis (Merr.) Markgraf, Bot, Jahrb, 61; 194 (1927) ('litoralis').

l a. var. ackeringae

Philippines: Luzon, Babuyan Group, Mindoro, Palawan. Malay Arch.; Bangka: Lenar Arch.: Java: Borneo: Sabah: Kei Is. Cocos-Keeling. North West New Guinea. New Mecklenburg.

l b. var. angustifolia Baker f.

in Andrews, Monogr, Christmas Island: 182 (1900).

Christmas Island (Indian Ocean).

2. Ochrosia alvxioides Guillaumin

Journ, Arn. Arb. 13 : 18 (1932). - Excavatia neo-ebudica GUILLAUMIN, Bull, Mus. Hist. Nat. Paris, ser. 2, 9: 293-294 (1937).

New Hebrides.

3. Ochrosia balansæ (Guillaumin) Guillaumin

Bull. Mus. Hist. Nat. Paris, ser. 2, 27 (1955) : 475 (1956).

— Excavatia balansæ Guillaumin, Bull. Soc. Bot. Fr. 88 : 362 (1941).

3 a. var. balansæ

New Caledonia.

3 b. var. excelsion Boiteau

Adansonia, ser. 2, 15 ; 149 (1975).

New Caledonia.

4. Ochrosia bodenheimarum Guillaumin

Mém. Mus. Hist. Nat. Paris, ser. Bot., 8 ; 83 (1957); Botteau & al., Adansonia. ser. 2, 14: 494 (1974).

New Caledonia. Insufficiently known, not re-collected.

5. Ochrosia borbonica Gmelin

Syst. Veg., ed. 13: 439 (1791).

- Cerbera borbonica (GMEL.) SPRENGEL, Syst. Veg., ed. 5, 1: 642 (1825).
 Lactaria borbonica (GMEL.) KOIDZUMI, Bot. Magaz. Tokyo 37: 51 (1923).
- Rauvolfia striata Poiret, Encycl. Méth., Bot. 4: 83 (1804). - Ophioxylon ochrosia Persoon, Syn. 1: 266 (1817).
- Ochrosia maculata auct. non Jacouin,

Mascarene Islands : Mauritius: Réunion.

6. Ochrosia coccinea (Teysmann & Binnendijk) Miquel

Ann. Mus. Lugduno-Bat. 4: 138 (1869).

- Lactaria coccinea Teysm. & BINN., Nat. Tidischr. Nederl. Ind. 29: 249 (1867).
- Bleekeria coccinea (Mio.) Koidzumi, Bot. Magaz. Tokyo 37: 52 (1923). Excavatia coccinea (Teysm. & Binn.) Markgraf. Bot. Jahrb. 61: 195 (1927).

6 a. var. coccinea

Moluccas: Ceram; New Guinea.

6 b. var. peekelii (Markgraf) Fosberg & Sachet, comb. nov.

- Excavatia coccinea var. peekelii Markgraf, Notizbl. 10: 282 (1928).

Solomon Is. : Bougainville.

7. Ochrosia commutata K. Schumann

in ENGLER & PRANTL, Natūri. Pflanzenfam. 4 (2): 156 (1895).

New Guinea. We have not seen this species.

8. Ochrosia compta K. Schumann

- in ENGLER & PRANTL, Natürl, Pflanzenfam, 4 (2): 156 (1895).
- Ochrosia sandwicensis auct. non A.DC. : A. GRAY, Proc. Amer. Acad. 5 : 333 (1862). Often cited as O. sandwicensis A. GRAY, but there is no such name: GRAY merely misapplied A. DE CANDOLLE's name.
- Lactaria sandwicensis auci. : O. Kuntze, Rev. Gen. 415 (1891) (non Ochrosia sandwi-
- censis A.DC.). - Bleekeria sandwicensis auct. : KOIDZUMI, Bot. Magaz. Tokyo 27 : 52 (1923) (non
- Ochrosia sandwicensis A.DC.). Exeavatia saudwicensis auct.: MARKGRAF, Mitt. Bot. Staatss. Münch. 1: 29 (1950) (non Ochrosia sandwicensis A,DC.).
- Bleekeria compta (K. SCHUM.) WILBUR, Pac, Sci. 20: 260 (1966).

Hawaijan Islands.

9. Ochrosia elliptica Labillardière

Sertum Austro-Caled.: 259, tab. 30 (1824).

— Lactaria elliptica (LABILL.) O. KUNTZE, Rev. Gen. 415 (1891).

- Bleekeria elliptica (LABILL.) KOIDZUMI, Bol, Magaz, Tokyo 37 ; 52 (1923). - Excavatia elliptica (LABILL.) MARKGRAF, Bish. Mus. Bull. 141; 128 (1936).

 Bleekeria calocarpa HASSKARL, Retzia 1; 40 (1855) ('kalocarpa'); F. MUELL., Walp. Ann. Bot. Syst. 5: 492 (1859).

 Lactaria calocarpa (HASSK.) HASSK., Ned, Kruidk. Arch, 4: 9-10 (1859). - Ochrosia calocarpa (HAASK.) MIQUEL, Ann. Mus. Lugduno-Bai. 4: 139 (1869).

Ochrosia noumeensis Baill. ex Guillaumin, Ann. Mus. Colon. Marseille, ser. 2,
 9: 195 (1936), nom. nud.; Buil. Soc. Bol. Fr. 88: 34 (1941).

9 a. f. elliptica.

Java (cult.). Australia, Lord Howe I., New Caledonia, New Hebrides. Nauru, Ocean I., Hawaijan islands (cult.), Puerto Rico (cult.),

9 b. f. syncarpa Boiteau

Adansonia, ser. 2, 15 : 151 (1975).

Ile Walpole and Ilot Beautemps-Beaupré (Loyalty Group),

10. Ochrosia fatuhivensis Fosberg & Sachet

Micronesica 8 : 48 (1972).

Marquesas.

11. Ochrosia grandiflora Boiteau

Adansonia, ser. 2, 15 : 147 (1975).

New Caledonia.

12. Ochrosia hexandra Koidzumi

Bot. Magaz. Tokyo 32 : 249 (1918).

Bleekeria hexandra (KOIDZ.) KOIDZ., Bot. Magaz. Tokyo 37: 52 (1923). - Excavatia hexandra (KOIDZ.) HATUSIMA, JOURN, Japan, Bot. 12: 485 (1936).

Bonin Islands

Ochrosia mariannensis A. de Candolle

Prodr. 8 : 357 (1844).

 Lactaria mariamensis (A. DC.) O. KUNTZE, Rev. Gen. 415 (1891).
 Bleekeria mariamensis (A. DC.) KOIDZUMI, Bol. Magaz. Tokyo 37; 52 (1923). - Excavatia mariannensis (A. DC.) MARKGRAF, Bot. Jahrb. 61; 194 (1927).

Marianas Islands.

13 a. var. mariannensis

Marianas Islands.

13 b. var. crassicarpa Fosberg & Falanruw

Micronesica 11: 80 (1975).

Marianas Islands: Saipan.

14. Ochrosia minima (Markgraf) Fosberg & Boiteau, comb. nov.

- Excavatia minima Markgr., Journ. Arn. Arb. 21; 199 (1940).
- Bleekeria minima (MARKGR.) MERRILL & PERRY, Journ. Arn. Arb. 24: 214 (1943).

New Guinea.

15. Ochrosia moorei (F. v. Mueller) F. v. Mueller ex Bentham

- Ff. Austral, 4: 310 (1868).
- Lactaria moorei F. MUELL., Fragm. 3 (21): 110 (1862).
- Bleekeria moorei (F. MUELL.) KOIDZUMI, Bot. Magaz. Tokyo 37 : 52 (1923).

Australia. Confused by many authors with O. elliptica from which it may be distinguished by its lanceolate, pointed leaves and less compressed fruit.

16. Ochrosia mulsantii Montrouzier

Mém. Acad. Lyon 10: 385 (1860).

- Ochrosia vieillardii GUILLAUMIN, Not. Syst. Paris 12: 79 (1945).

New Caledonia.

17. Ochrosia nukuhivensis Fosberg & Sachet

Micronesica 8: 48 (1972).

Marquesas.

18. Ochrosia silvatica Dániker

Vierteljahrsschrift Nat. Ges. Zürich 78, Beibl. 19: 385 (1933).

New Caledonia

- 19. Ochrosia solomonensis (Merrill & Perry) Fosberg & Boiteau. comb. nov.
- Bleekeria solomonensis Merr. & Perr., Journ. Arn. Arb. 24: 214 (1943).

Solomon Islands

- 20 Ochrosia tahitensis Lanessan ex Pichon
- Bull, Mus. Hist. Nat. Paris, ser. 2, 19 : 207 (1947): Lanessan, Plantes Utiles Colonies Françaises: 865 (1886), nom. nud.

Society Islands.

- 21. Ochrosia vitiensis (Markgraf) Pichon
- Bull. Mus. Hist. Nat. Paris, ser. 2, 19: 207 (1947).

 Execuratia vitensis MARKGRAF, Bull, Bishop Mus. Honolulu 141: 127 (1936).

 Bleekeria vitensis (MARKGRAF) A. C. SMITH, Bull, Torr. Bot. Club 70: 549 (1943).
 - Fiii Islands.

NEISOSPERMA Rafinesque

Sviva Telluriana: 162 (1838).

- Lactaria RUMPHIUS ex RAFINESQUE, I.c.
- Pseudochrosia Blume, Mus. Bot. Lugd.-Bat. 1: 158 (1850).
 Ochrosia sect. Echinocaryon F. v. Muellera, Fragm. Phylog. Austral. 7: 129 (1869).
- Calpicarpum auct. non G. Don: Botteau & al., Adansonia, ser. 2, 14: 495 (1974).
 - Neisosperma acuminata (Valeton) Fosberg & Sachet, comb. nov.
- Ochrosia acuminata Trimen ex Valeton, Ann. Jard. Bot. Buit. 12 (2): 231-233, tab XXII (1895)

Celebes.

- 2. Neisosperma apocnsis (Elmer) Fosberg & Sachet, comb. nov.
- Ochrosia apoensis FLMER, Leaflets Philipp, Bot. 4: 1461 (1912).

Philippine Islands.

- 3. Neisosperma brevituba (Boiteau) Boiteau, comb. nov.
- Ochrosia brevituba Botteau, Adansonia, ser. 2, 12: 627 (1972).

New Caledonia.

4. Neisosperma brownii Fosberg & Sachet

Micronesica 8: 49 (1972).

Marquesas Islands : Nukuhiya.

5. Neisosperma citrodora (Lauterbach & K. Schumann) Fosberg & Sachet, comb non

- Ochrosia citrodora Lauterbach & K. Schumann, in K. Schum. & Lauterb., Flora Deutsch, Südsee : 504 (1901 [1900]).

New Guinea.

- 6. Neisosperma ficifolia (S. Moore) Fosberg & Sachet, comb. nov.
- Alstonia ficifolia S. Moore, Journ. Bot. 61, Suppl. : 32 (1923).
- Ochrosia ficifolia (S. MOORE) MARKGRAF, Bot. Jahrb. 61; 190 (1927).

New Guinea.

7. Neisosperma glomerata (Blume) Fosberg & Sachet, comb. nov.

- Pseudochrosia glomerata BL., Mus. Bot. Lugd.-Bat. 1 ; 158 (1850).
- Ochrosia glomerata (Bl.) VALETON, Ann. Jard. Boi. Buit. 13 (2) ; 233 (1895).
- Lactaria glomerata (Bl.,) Koldzumt, Bot. Magaz. Tokyo 37 : 51 (1923).

Celebes, New Guinea, Solomon Islands.

8. Neisosperma iwasakiana (Koidzumi) Fosberg & Sachet, comb. nov.

 Lactaria iwasakiana Koidz., Bot. Magaz. Tokyo 37: 50 (1923).
 Ochrosia iwasakiana (Koidz.) Pichon, Bull. Mus. Hist. Nat. Paris, ser. 2, 19: 211 (1947); MASAMUNE, Sci. Report Kanazawa Univ. 3; 324 (1955).

Rvukvu Islands.

9. Neisosperma kilneri (F. v. Mueller) Fosberg & Sachet, comb. nov.

Ochrosia kilneri F. Muell., Fragm. 7: 129-130 (1871).

Australia

⁻ Lactaria kilneri (F. MUELL.) O. KUNTZE, Rev. Gen. 415 (1891). - Ochrosia medowalliana F. M. Bailey, Bot. Bull. Queensl. Dept. Agr. Brisbane, 7: 65 (1893).

Neisosperma lifuana (Guillaumin) Boiteau. comb. nov.

- Ochrosia lifuana Guillaumin, Bull. Soc. Bot. Fr. 88: 363 (1941).
 Ochrosia confusa Pichon, Bull. Mus. Hist. Nat. Paris, ser. 2, 19: 210 (1947). - Calpicarpum confusum (Pich.) Boit., Adansonia, ser. 2, 14: 496 (1974).

Lovalty Islands.

11. Neisosperma miana (Baillon ex White) Boiteau, comb. nov.

- Ochrosia miana BAILL. ex WHITE, JOUEN, AER, Arb. 7: 101 (1921); GUILLAUMIN,
- Bull. Soc. Bot. Fr. 88: 363 (1941). Calpicarpum mianum (BAILL, ex WHITE) BOIT., Adansonia, ser. 2, 14: 496 (1974).
- Ochrosia miana Baill, ex Guillaumin, Ann. Mus. Colon. Marseille, ser. 2, 9: 195 (1911), nom. nud.

New Caledonia

Neisosperma nakajana (Koidzumi) Fosberg & Sachet, comb. nov.

- Lactaria nakaiana Koidz., Bot. Magaz. Tokyo 37: 49-50 (1923).
- Ochrosia nakajana (KOIDZ.) KOIDZ. ex HARA, Enum. Spermat. Jap. Part 1: 146 (1948).

Bonin Islands.

13. Neisosperma oppositifolia (Lamarck) Fosberg & Sachet

Micronesica 8: 48 (1972).

- Cerbera oppositifolia Lam., Encycl. Meth., Bot. 1: 62 (1783).
- Lactaria oppositifolia (LAM.) O. KUNTZE, Rev. Gen. : 415 (1891).
- Ochrosia oppositifolia (Lam.) K. Schumann, in Engl. & Prantl, Nat. Pflanzenfam. 4 (2); 156 (1895).
- Calpicarpum oppositifolium (LAM.) BOITEAU, Adansonia, ser. 2, 14 : 495 (1974).
- Cerbera parviflora FORST. f., Prodr. ; 19 (1786).
- Ochrosia porviflora (FORST. f.) G. DON, Gen. Syst. 4: 99 (1837).
- Lactaria parviflora (FORST. f.) O. KUNTZE, Rev. Gen. : 415 (1891).
- Cerbera salutaris Lour., Fl. Cochinch.; (1790), Status and identity very uncertain. Cerbera platyspermos GAERTN., De Fruct. 2: 193, tab. 124, fig. 2 (1791).
- Ochrosia platyspermos (GAERTN.) A. DC., Prodr. 8; 356 (1844).
- Calpicarpum lamarkil [sic] G. Don, Gen, Syst. 4: 100 (1837).
- Lactoria salubris RAFINESOUE, Sylva Tellur. : 162 (1838); RUMPHIUS CX KOIDZUMI. Bot. Mag. Tokyo 37: 51 (1923).
- Ochrosia salubris (RAF.) HASSKARL, Retzia 1: 41 (1855).
- Neisosperma muricata RAF., I.c.: 162 (1838).
- Ochrosia cowlevi F. M. BAILEY, Queensl. Agr. Journ. 1 (3): 229 (1897).

Seychelles to Polynesia and north to the Marianas.

- 14. Neisosperma poweri (F. M. Bailey) Fosberg & Sachet, comb. nov.
- Ochrosia poweri F. M. Ball., Dep. Agr. Brisbane, Bot. Bull. 13: 11 (1896).
 Ochrosia newelliana F. M. Ball., Oucensl. Agr. Journ. 5: 389 (1899).

Australia.

- 15. Neisosperma rudis (Markgraf) Fosberg & Sachet, comb. nov.
- Ochrosia rudis Markgr., Bot. Jahrb. 61: 189 (1927).

New Guinea.

- 16. Neisosperma sciadophylla (Markgraf) Fosberg & Sachet, comb. nov.
- Ochrosia sciadophylla MARKGR., Gard. Bull. Singapore 22 (1); 26 (1967),

Bismarck and Solomon Islands.

- 17. Neisosperma sevenetii (Boiteau) Boiteau, comb. nov.
- Ochrosia sevenetii Bott., Adansonia, scr. 2, 12 : 627 (1972).
- Calpicarpum sevenetii (Bort.) Bort., Adansonia, scr. 2, 14: 496 (1974).

New Caledonia.

- 18. Neisosperma thioltierei (Montrouzier) Boiteau, comb. nov.
- Ochrosia thiollierei Montrouz., Mém. Acad. Lyon 10: 235 (1860).
- Calpicarpum thiollierei (MONTROUZ.) BOITEAU, Adansonia, ser. 2, 14: 497 (1974).

New Caledonia.

NOTE: There has been some confusion surrounding the species Ochrosia balansæ (Grillaumin) Guillaumin (1956) and Podochrosia balansæ Baillon (1888), as the author citation in the place of transfer of the former was incorrect (GUILLAUMIN, 1956, p. 475) and some may question whether the transfer was really validly made. We tentatively accept it here, but may publish a clarification at a later date.

EXCLUDED SPECIES

Neisosperrra musculiformis (Lam.) Rafinesque, Sylva Tellur, 162 (1838)

= Neuburgic musculiformis (Lam.) Miq., Fl. Ind. Bat. 2: 403 (1857).

Ochrosia novo-celedonica Dăniker, Viert. Nat. Ges. Zürich 18: 385 (1933)

= Pajeantha cerffera (Scb. & Panch, Marker, Notigbl. Bot. Gard.

Berlin 12: 546 (1935).

- Ochrosia sandwicensis A.DC., Prodr. 8: 357 (1844) = Rauvolfia sandwicensis A.DC., l.c.; 339 (1844).
- Ochrosia tuberculata (Vahl) Pichon, Bull. Mus. Hist. Nat. Paris, ser. 2, 19; 369 (1947).

Excluded from Ochrosia but not placed.

REFERENCE CITED

GUILLAUMIN, A., 1956. — Contributions à la flore de la Nouvelle-Calédonie. CIX. Plantes récottées par M. MacKee [sic] (suite), Bull. Mus. Hist. Nat. Paris, ser. 2, 27: 469-476.

INDEX

To the binomials coined under Neisosperma and Ochrosia, with numbers referring to the names accepted here (N=Neisosperma; O=Ochrosia; excl., species to be excluded from these two genera, see above).

excipated from mose two general, see mosters					
Neisosperma acuminata (Valet.)	- 1	— apoensis Elm	N 2		
Fosb. & Sach	NI	 balansæ (Guillaum.) Guil- 			
 apoensis (Elm.) Fosb. & Sach. 	N 2	laum	O 3		
- brevituba (Boit.) Boit	N 3	— var. balansæ	O 3a		
- brownji Fosb, & Sach,	N 4	- var, excelsior Boit,	O 3b		
- citrodora (Laut. & Schum.)		 bodenheimarum Guillaum. 	0.4		
Fosb. & Sach	N 5	- borbonica Gmel	O 5		
- ficifolia (Moore) Fosb. &		- borbonica auct	N 13		
Sach	N 6	- brevituba Boit	N 3		
- glomerata (Bl.) Fosb. & Sach.	N 7	- calocarpa (Hassk.) Miq	0 9		
 iwasakiana (Koidz.) Fosb. & 		- citrodora Laut. & Schum	N 5		
Sach	N 8	- coccinea (Teysm. & Binn.)			
- kilneri (F. Muell.) Fosb. &		Miq	0 6		
Sach	N 9	- var. coccinea	O 6a		
 lifuana (Guitlaum.) Boit 	N 10	 var. peekelii (Markgr.) 			
 miana (Baill. ex White) Boit. 	N 11	Fosb. & Sach	O 6b		
- muricata Raf	N 13	- commutata K. Schum	0.7		
 musculiformis (Lam.) Raf 	excl.	- compta K. Schum	O 8		
 nakaiana (Koidz.) Fosb. & 		— confusa Pich	N 10		
Sach	N 12	- cowleyi F. M. Bail	N 13		
 oppositifolia (Lam.) Fosb. & 		— elliptica Labill	09		
Sach	N 13	- f. elliptica	O 9a		
- poweri (F. M. Bail.) Fosb.		— f. syncarpa Boit	O 9b		
& Sach	N 14	 fatuhivensis Fosb. & Sach. 	O 10		
rudis (Markgr.) Fosb. & Sach.	N 15	 ficifolia (Moore) Markgr 	N 6		
 sciadophył'a (Markgr.) Fosb. 		- glomerata Valet	N 7		
& Sach	N 16	— glomerata auct	N 13		
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		— iwasakiana Koidz	N 8		
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Binn.) Miq	0.1	— lifuana Guillaum	N 10		
— var. ackeringæ	O la	— littoralis Metr	O 1		
 var. angustifolia Bak. f. 	O lb	— maculata Jacq	N 13		
- acuminata Trim, ex Valet	NI	- maculata auct	0 5		
 alyxioides Guilfaumin 	0 2	- mariannensis A.DC	O 13		

	- var, crassicarpa Fosb. &	10	- parviflora auct	09
	Fal	O 13b	- platyspermos (Gaertn.) A,OC.	N 13
	- var. mariannensis	O 13a	- paweri F. M. Bail	N 14
_	medowaltiana F. M. Bail	N 9	- rudis Markgr	N 15
	miana Baill, ex Guillaum	N 11	- salubris (Raf.) Hassk	N 13
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_	minima (Marker.) Fosb. &	100	- sandwicensis auct	0 8
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_	novo-caledonica Dünik	excl.	- undulata (Andr.) Boj	N 13
_	nukuhiyensis Fosb. & Sach.	O 17	- undulata auct	0.5
-	oppositifolia (Lam.) K. Schum.	N 13	- vieitlardii Guillaum	O 16
	parviflora (Forst. f.) G. Don	N 13	- vitiensis (Markgr.) Pich	O 21